Understanding the Supplemental Poverty Measure

Trudi Renwick, Ph.D.
United States Census Bureau

Presented at

Western Economic Association 13th International Conference 3-6 January 2017

Pontifical Catholic University of Chile, Santiago

Session 84: Contemporary Economic Policy: Public Policy and Inequality
Series

Poverty and Social Policy: Poverty and Inequality Measurement – Empirical Approach II



The views expressed in this research, including those related to statistical, methodological, technical, or operational issues, are solely those of the author and do not necessarily reflect the official positions or policies of the Census Bureau. The author accepts responsibility for all errors.

This presentation is released to inform interested parties of ongoing research and to encourage discussion of work in progress. This presentation reports the results of research and analysis undertaken by Census Bureau staff. It has undergone more limited review than official publications.

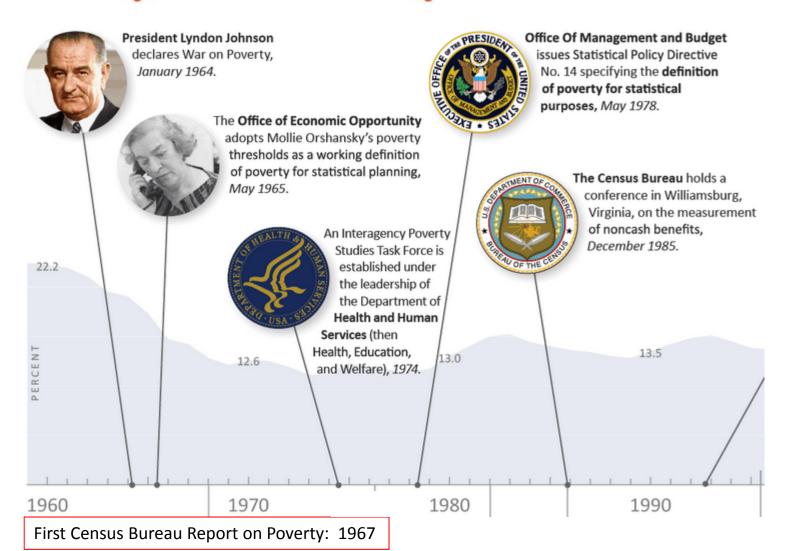
Official Poverty and Supplemental Poverty Estimates for 2015 released in September 2016



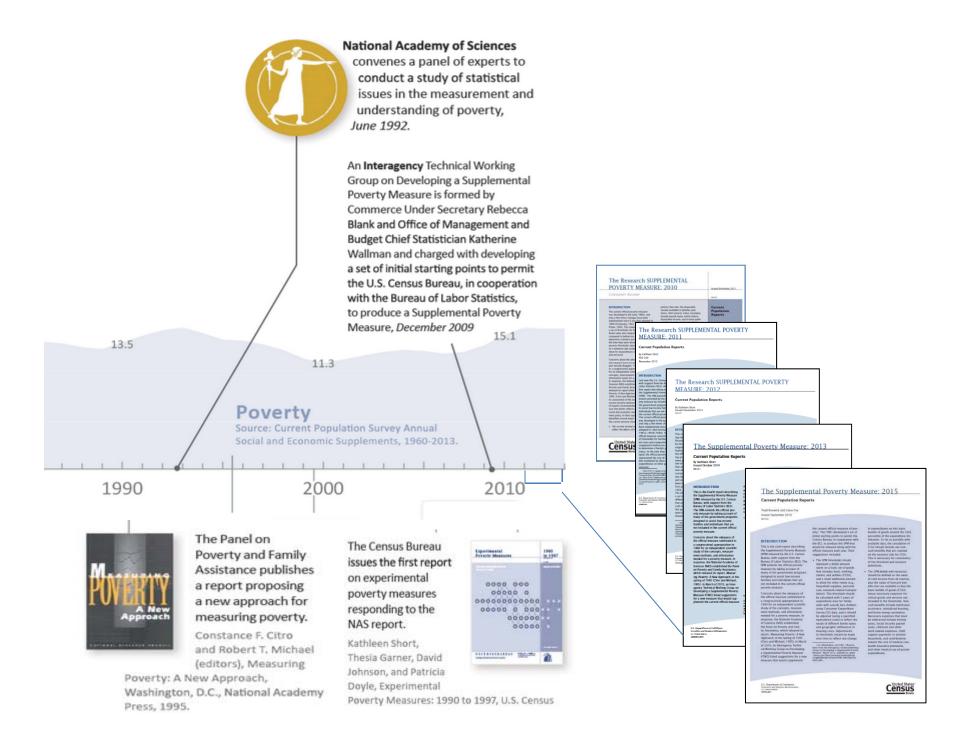
Highlights

- The official poverty rate in 2015 was 13.5 percent, down 1.2 percentage points from 2014. In 2015, there were 43.1 million people in poverty, 3.5 million fewer than in 2014.
- The Supplemental Poverty Measure (SPM) rate in 2015 was 14.3 percent, 1 percentage point lower than the SPM estimate for 2014.

Poverty: The History of a Measure



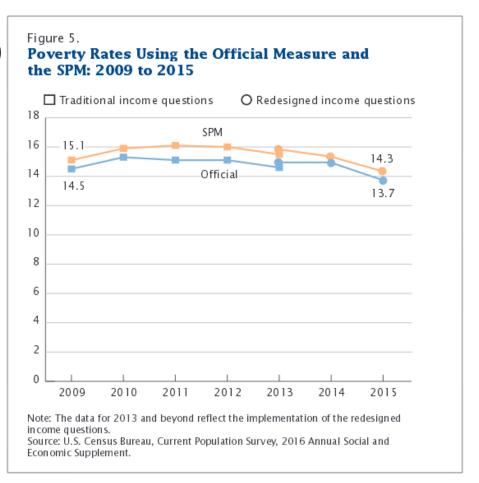




Supplemental Poverty Measure (SPM)

Observations from the Interagency Technical Working Group (ITWG) - March 2, 2010

- Will not replace the official poverty measure
- Will not be used for resource allocation or program eligibility
- Census Bureau and BLS responsible for improving and updating the measure
- Continued research and improvement
- Based on National Academy of Sciences expert panel recommendations in Measuring Poverty: A New Approach (Citro and Michael, 1995)





Criticisms of the Official Poverty Measure

- The official measure does not account for:
 - Provision of in-kind benefits
 - Necessary expenses (taxes, health care, work)
 - Changes in family or household structure
 - Higher standards and levels of living since 1965
 - Geographic price differences among regions

Poverty Measure Concepts: Official vs Supplemental Poverty Measure

	Official	SPM
Measurement units	Family only	OPM plus unmarried partners, unrelated children and foster children
Poverty threshold	3 times minimally adequate food diet in 1960s	30 th -36 th percentile of expenditures on food, clothing, shelter and utilities (+ 20%)
Threshold adjustments	Vary by family size, composition and age of householder	Geographic adjustments for differences in housing costs and equivalence scale for family size and comp. Three separate thresholds by housing status
Updating thresholds	Consumer Price Index (CPI-U)	Five year moving avg. of expenditures
Resource measure	Gross before-tax cash income	Sum of cash income, PLUS: in-kind benefits (SNAP, LIHEAP, WIC, Housing subsidies) MINUS: Taxes, child support paid, work expenses (including child care), medical out-of-pocket expenses



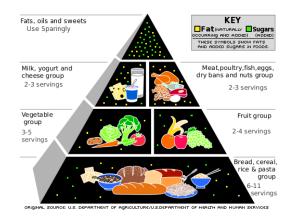
How to Determine Poverty Status

Resources



Needs

Food Guide Pyramid A Guide to daily Food Choices



- All family members have the same poverty status.
- For individuals who do not live with family members, their individual resources are compared with the appropriate threshold.

What resources do people have to meet their needs?

What we count as available resources differs between the two poverty measures.

The official measure uses cash income, such as wages and salaries, Social Security benefits, interest, dividends, pension or other retirement income.



The SPM starts with cash income, then...

ADDING BENEFITS

The SPM adds benefits from the government that are not cash but help families meet their basic needs.

SUBTRACTING EXPENSES

The SPM subtracts necessary expenses like taxes, health care, commuting costs for all workers, and child care expenses while parents work.



Are needs the same in New York and Mississippi?

Poverty thresholds for both measures are adjusted to reflect the needs of families of different types and sizes. Only the SPM thresholds take account of geographic differences in housing costs.

Yes, the official poverty threshold is the same throughout the United States. In 2012, the poverty threshold for a family with two adults and two children was \$23,283*.

NO, SPM thresholds vary based on several factors such as place of residence and whether it is a rental unit or purchased property or home with a mortgage. The map below shows the SPM thresholds for renters with two adults and two children in 2012.

2012 Official Poverty Thresholds (Two Adults and Two Children)

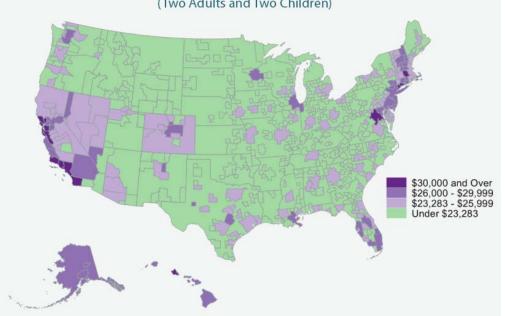


Source: Delayas-Walt, Carmen, Bernadette D. Proctor, and Jessica C. Smith. Income, Poverty, and Health Insurance Coverage in the United States: 2012. U.S. Census Bureau, Current Population Reports, P60-245, U.S. Government Printing Office, Washington DC, September 2013.

*Revised since first release on Jan. 7, 2014. Original number was \$22,283.

2012 SPM Poverty Thresholds for Renters

(Two Adults and Two Children)



Sources: Geographic adjustments based on housing costs from the American Community Survey 2007-2011. Base thresholds are from the Bureau of Labor Statistics < www.bls.gov/pir/spm/spm thresholds 2012.htm>.



Example: Family of two adults, one child in metro Arizona.

Official Poverty Measure

Official	threshold	\$19,078.

Cash Income \$20,000

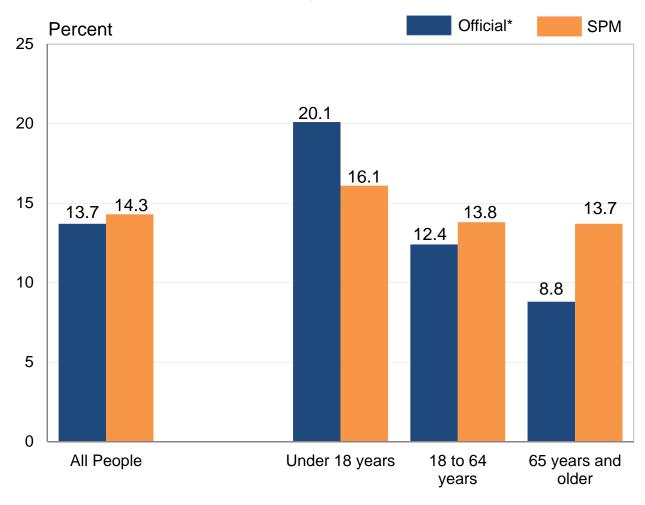
Official: \$20,000>\$19,078 so family is considered "above poverty level"

SPM

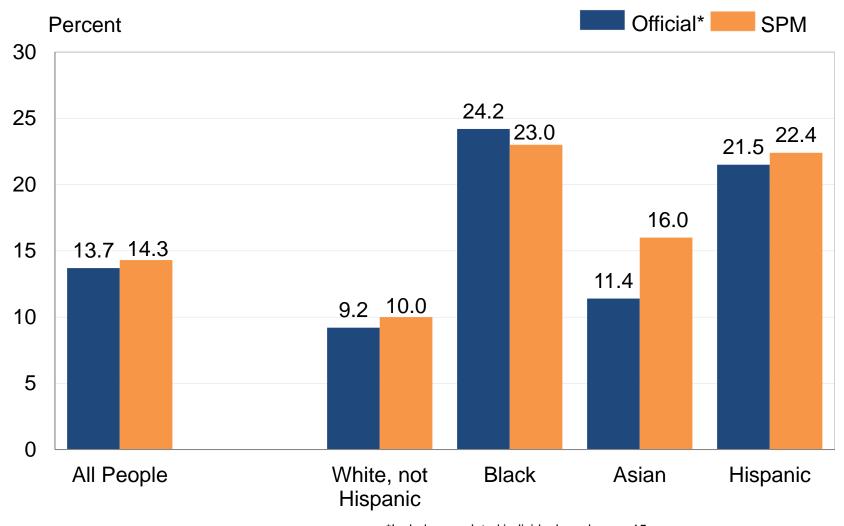
SPM Threshold	\$21,303	
Cash Income	\$20,000	
+ Tax credits	+1,701	
+ WIC benefits	+1,038	
- Work/Childcare	- 2,463	
SPM Resources	\$20,276	
SPM: \$20,276<\$21,303 so family is considered "in poverty"		



Comparison of SPM and Official Poverty Estimates by Age: 2015



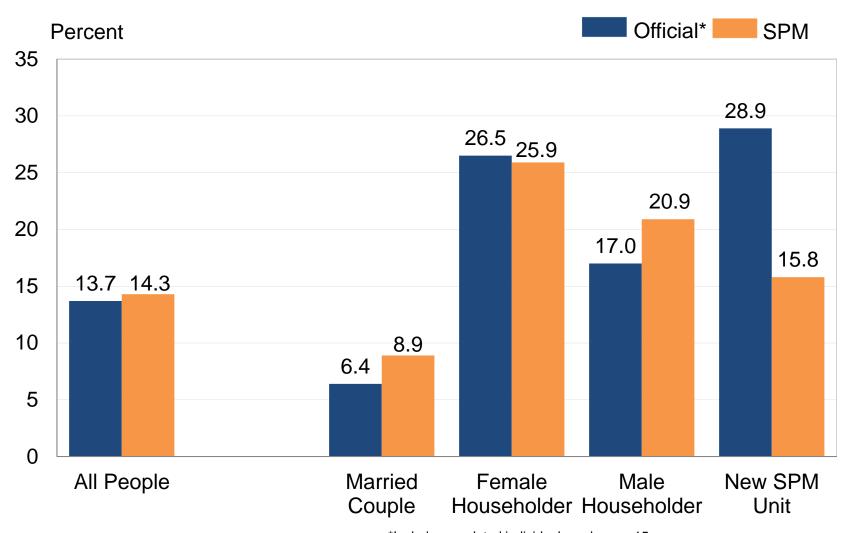
Comparison of SPM and Official Poverty Estimates by Race and Hispanic Origin: 2015





U.S. Department of Commerce Economics and Statistics Administration U.S. CENSUS BUREAU census.gov *Includes unrelated individuals under age 15.
Source: U.S. Census Bureau, Current Population Survey, 2015
Annual Social and Economic Supplement.
www.census.gov/library/publications/2015/demo/p60-254.html

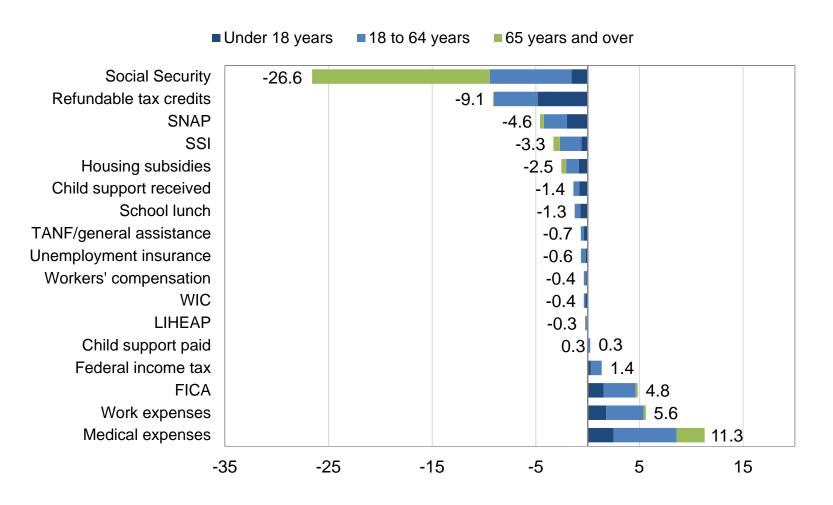
Comparison of SPM and Official Poverty Estimates by Resource Unit Type: 2015



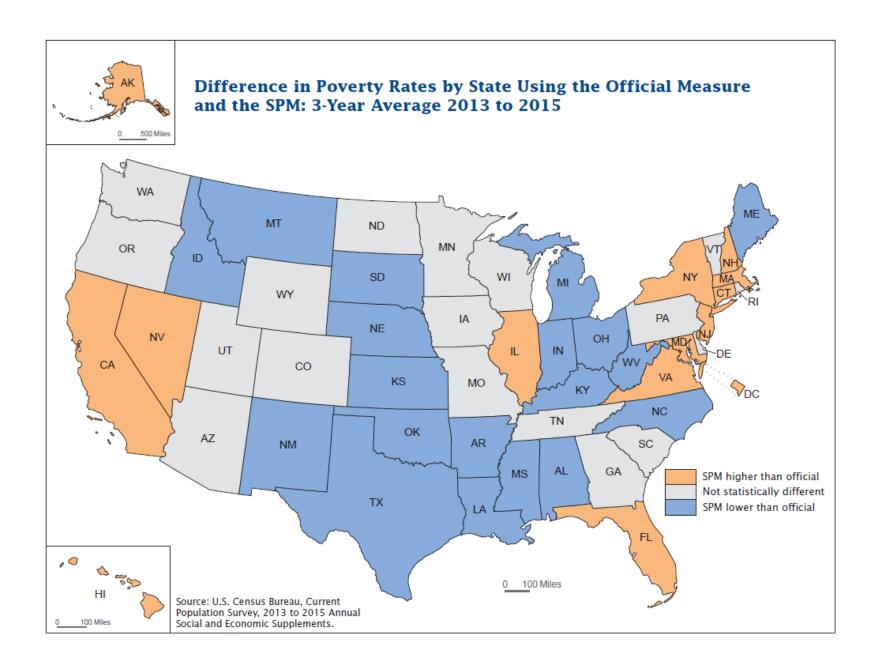


U.S. Department of Commerce Economics and Statistics Administration U.S. CENSUS BUREAU census.gov *Includes unrelated individuals under age 15.
Source: U.S. Census Bureau, Current Population Survey, 2015
Annual Social and Economic Supplement.
www.census.gov/library/publications/2015/demo/p60-254.html

Change in Number of People in Poverty After Including Each Element: 2015 (In millions)









Understanding the Supplemental Poverty Measure

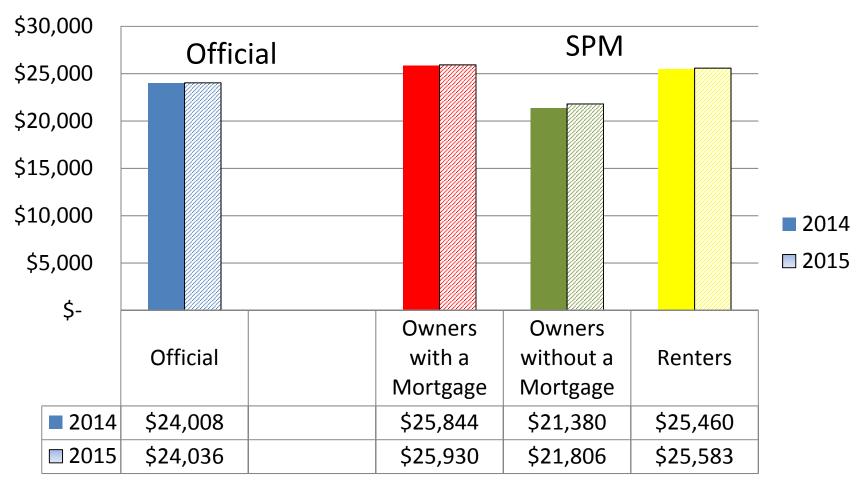
- Trudi Renwick
 - Trudi.j.renwick@census.gov
 - **301-763-5133**

http://www.census.gov/hhes/povmeas/index.html

EXTRA SLIDES



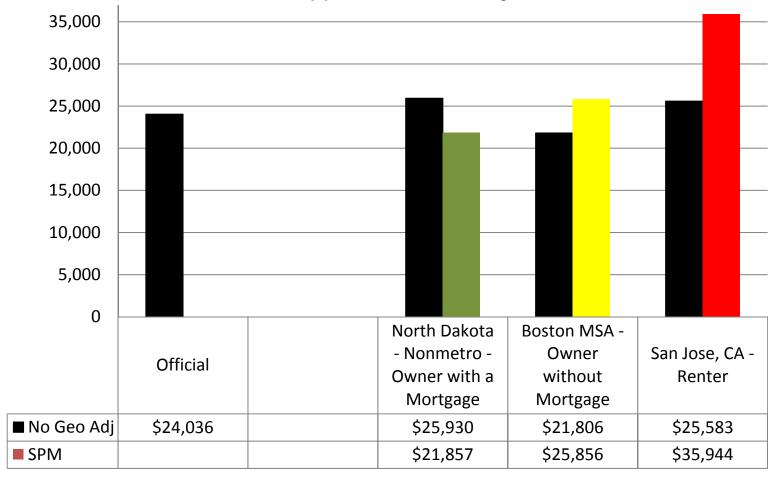
Official and SPM Thresholds: 2014 and 2015



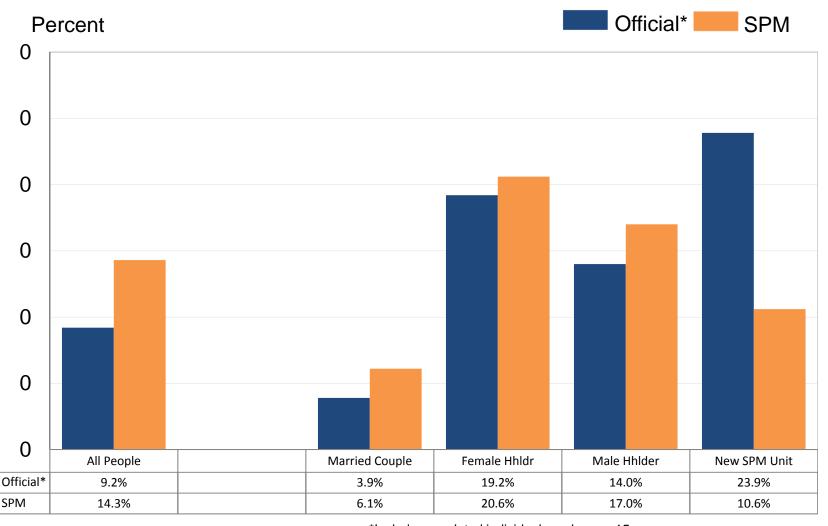


Official and Research SPM Thresholds for Two Adult, Two Child Units with Geographic Adjustments: 2015

Supplemental Poverty Thresholds

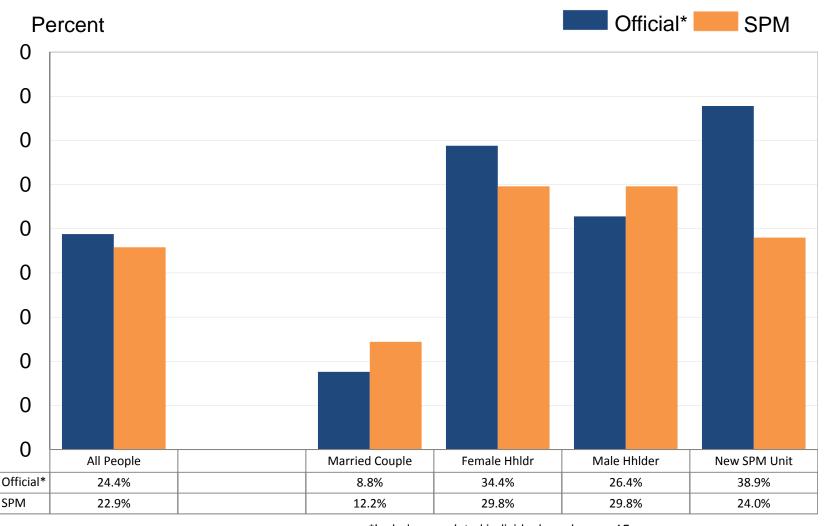


Comparison of SPM and Official Poverty Estimates by Resource Unit Type: 2015, nonhispanic White



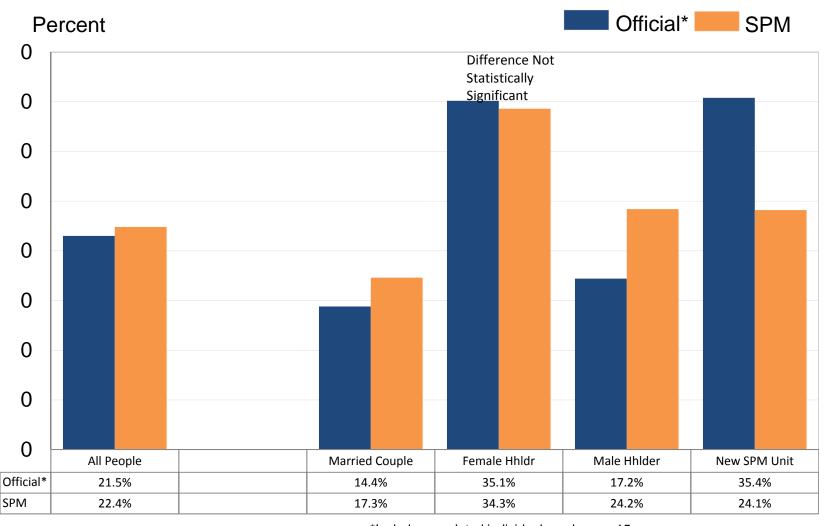


Comparison of SPM and Official Poverty Estimates by Resource Unit Type: 2015, nonhispanic Black



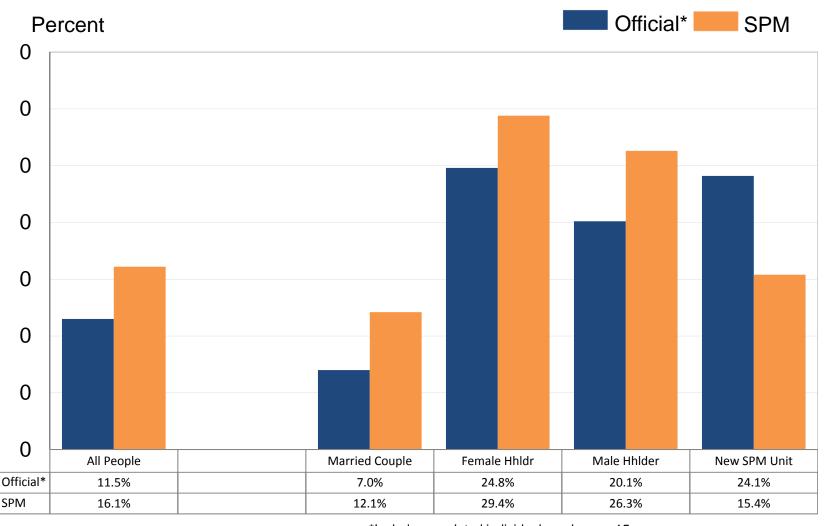


Comparison of SPM and Official Poverty Estimates by Resource Unit Type: 2015, Hispanic



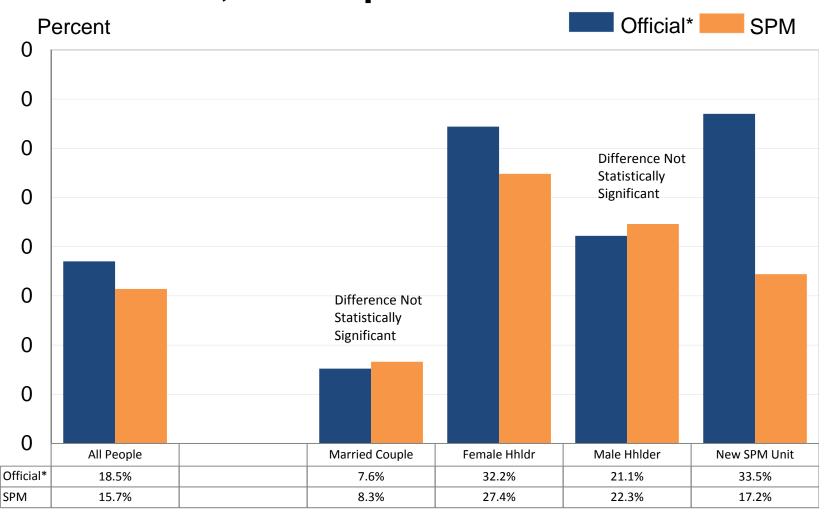


Comparison of SPM and Official Poverty Estimates by Resource Unit Type: 2015, nonhispanic Asian



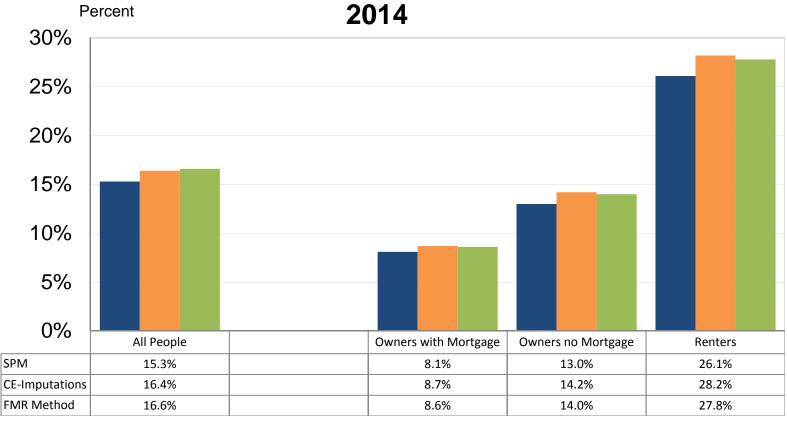


Comparison of SPM and Official Poverty Estimates by Resource Unit Type: 2015, nonhispanic "other" race





Comparison of Poverty Rates Using Alternative SPM Thresholds:



*Source: U.S. Census Bureau, Current Population Survey, 2015 Annual Social and Economic Supplement. www.census.gov/library/publications/2015/demo/p60-254.html

